

## MacroCargo™ Human THP-1 with GITR-L gRNA (Viral System, Lentivirus)

Cat. No.: MTS-1122-YF516

This product is for research use only and is not intended for diagnostic use.

### Cell Properties

Product Overview	As a therapeutic tool, macrophage cell has a great capacity for delivering cargos because of their intrinsic characteristics. This product is engineered Human THP-1 carried with GITR-L gRNA by Viral System-Lentivirus. MacroCargo™ products aim to improve the macrophage function and delivery of specific cargos. We also provide custom macrophage delivery systems based on your specific requirements.
Cell Name	THP-1
Cell Type	Cell Line
Cell Species	Human
Cell Background	THP-1 is a monocyte isolated from peripheral blood from an acute monocytic leukemia patient. This cell line can be used in immune system disorder research, immunology research, and toxicology research.

### Cargo Properties

Cargo Type	CRISPR KO
Specific Cargo	GITR-L gRNA
Target Common Name	TNFSF18
Target Alternative Names	TL6; AITRL; GITRL; TNLG2A; hGITRL
Target Full Name	TNF superfamily member 18
Introduction	TL6; AITRL; GITRL; TNLG2A; hGITRL
UniprotID	<a href="#">Q9UNG2</a>
GeneID	<a href="#">8995</a>
Cargo Delivery System Type	Viral System
Cargo Delivery Approach	Lentivirus

### Product Properties

Applications	Induce anti-tumor macrophage phenotypes
References	Brom, Victoria C., et al. "The role of immune checkpoint molecules on macrophages in cancer, infection, and autoimmune pathologies." <i>Frontiers in Immunology</i> 13 (2022): 837645. Distributed under Open Access license <a href="https://creativecommons.org/licenses/by/4.0/">CC BY 4.0</a> , without modification.
Mycoplasma Testing	Negative
Sterility Testing	Negative
Shipping	Dry ice
Storage	Frozen cells should be stored in a liquid nitrogen tank (-150°C~-190°C) for long term.
Handling Notes	Frozen cells should be thawed immediately upon receipt and grown according to handling procedure to ensure cell viability and proper assay performance. Note: Do not freeze the cells upon receipt as it may result in irreversible damage to the cell line. Disclaimer: We cannot guarantee cell viability if the cells are not thawed immediately upon receipt and grown according to handling procedure.
Restriction	Research use only